Water-Data Report 2006

12101500 PUYALLUP RIVER AT PUYALLUP, WA

Puget Sound Basin
Puyallup Subbasin

LOCATION.--Lat 47°12′31″, long 122°19′33″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.20, T.20 N., R.4 E., Pierce County, WA, Hydrologic Unit 17110014, on left bank 0.8 mi upstream from bridge at Clark Creek, 2.0 mi northwest of Puyallup City Hall, and at mile 6.6.

DRAINAGE AREA.--948 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1914 to current year.

REVISED RECORDS.--WSP 832: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Dec. 3, 1919, at sites 1.2 mi upstream and 900 ft upstream at different datums. Dec. 3, 1919, to Nov. 9, 1935, at site 500 ft upstream at datum 9.61 ft higher.

REMARKS.--Records good, except for estimated daily discharges which are fair. All diverted water returned to river upstream of gage. Large part of flow of White River (a tributary) diverted through Lake Tapps (station 12101000). Flood flow regulated by Mud Mountain Lake (station 12098000) on White River. Some pondage on tributaries and upper Puyallup River. Diurnal fluctuations caused by powerplants and glacial melt upstream from station. U.S. Geological Survey satellite telemeter at station. Chemical analyses October 1958 to September 1968, October 1970 to September 1972, October 1974 to September 1994. Water temperatures July 1959 to September 1961, August 1965 to September 1966. Since 1912 the City of Tacoma pipeline diversion from Green River has released as much as 123 ft^3/s daily, and from 1957-1990 an average of about 15 ft^3/s per month into Puyallup River 0.5 mi east of McMillin. Since 1990 releases have been minimal.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--92 years (water years 1915-2006), 3,313 ft^3/s, 2,400,000 acre-ft/yr, adjusted for storage in Lake Tapps since October 1934, and Mud Mountain Lake, October 1944 to September 1947.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,000 ft^3/s, Dec. 10, 1933, elevation, 31.0 ft, present datum; minimum discharge, 306 ft^3/s, Sept. 25, 1955, elevation, 8.23 ft; minimum daily discharge, 400 ft^3/s, Nov. 30, 1952.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,400 ft^3/s, Jan 11, gage height, 21.20 ft; minimum discharge, 842 ft^3/s, Sep 18, gage height, 9.42 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5,750	3,630	3,010	7,780	8,100	3,280	2,000	3,610	5,060	3,280	1,530	1,130
2	3,030	3,700	3,020	6,700	7,180	2,940	2,070	3,060	7,580	3,240	1,490	1,190
3	2,120	4,130	2,850	6,050	e6,830	2,650	1,920	2,740	8,470	3,260	1,550	1,350
4	1,740	3,910	2,670	5,590	7,300	2,430	2,170	2,590	7,530	3,450	1,640	1,540
5	1,510	3,750	2,540	5,640	6,480	2,240	2,070	2,620	7,600	3,490	1,630	1,660
6	1,390	4,150	2,520	7,310	5,440	2,110	1,910	2,760	6,200	3,250	1,640	1,520
7	1,750	3,740	2,410	8,260	4,800	2,060	1,830	2,830	5,410	2,810	1,770	1,400
8	1,680	3,260	2,280	7,730	4,380	2,110	1,880	2,870	4,890	2,560	2,030	1,390
9	1,480	2,940	2,160	7,650	3,940	2,280	2,260	2,570	4,510	2,650	1,830	1,390
10	1,330	2,940	2,110	14,600	3,530	2,100	2,160	2,380	4,230	2,810	1,830	1,240
11	1,370	3,660	2,190	19,400	3,100	2,000	2,050	2,430	4,070	2,580	1,640	1,250
12	1,270	3,740	2,350	16,200	2,880	1,870	2,050	2,540	4,260	2,400	1,590	1,310
13	1,550	4,040	2,400	12,300	2,830	1,790	2,150	2,440	5,200	2,640	1,570	1,300
14	1,700	4,580	2,250	10,300	2,810	1,780	3,380	2,360	4,990	2,450	1,630	1,090
15	1,730	4,040	2,090	7,540	2,530	1,780	3,980	2,680	4,730	2,440	1,670	1,020
16	1,610	3,710	2,020	6,430	2,340	1,730	3,330	4,170	4,740	2,240	1,570	924
17	1,800	3,460	1,950	8,080	2,130	1,750	2,890	5,690	4,730	2,220	1,530	881
18	1,810	3,240	1,790	5,970	2,040	2,000	2,680	6,830	4,130	2,120	1,580	992
19	1,860	3,260	1,870	4,940	2,220	1,970	2,550	6,770	3,690	2,030	1,640	1,290
20	2,480	3,400	2,500	5,300	2,200	1,840	2,550	6,370	3,450	2,020	1,650	1,140
21	2,090	3,350	4,000	5,730	2,220	1,780	2,790	5,440	3,320	2,350	1,630	1,430
22	1,870	3,280	4,860	6,360	2,300	1,740	2,770	5,070	3,160	2,780	1,660	1,300
23	1,750	3,190	6,290	6,030	2,450	1,640	2,590	5,260	3,090	2,830	1,560	1,080
24	1,660	3,040	9,640	5,780	2,580	1,730	2,520	5,320	3,130	2,770	1,490	1,040
25	1,520	3,650	9,410	5,700	2,130	1,760	2,530	4,990	3,380	2,590	1,420	1,080
26	1,580	4,150	7,940	4,690	2,040	1,670	2,530	4,710	e3,780	2,410	1,490	1,080
27	1,380	3,490	7,030	4,230	2,460	1,590	2,550	4,900	4,220	2,420	1,530	1,100
28	1,330	3,150	7,140	4,280	3,590	1,630	2,730	8,350	4,160	2,330	1,570	1,170
29	1,380	3,280	7,330	4,520	---	1,640	3,710	8,260	3,580	2,080	1,600	1,160
30	1,330	3,210	6,850	11,100	---	1,650	4,290	5,940	3,180	1,810	1,330	1,100
31	3,140	---	8,240	10,300	---	1,650	---	4,990	---	1,650	1,180	---
Total	57,990	107,070	125,710	242,490	102,830	61,190	76,890	133,540	140,470	79,960	49,470	36,547
Mean	1,871	3,569	4,055	7,822	3,672	1,974	2,563	4,308	4,682	2,579	1,596	1,218
Max	5,750	4,580	9,640	19,400	8,100	3,280	4,290	8,350	8,470	3,490	2,030	1,660
Min	1,270	2,940	1,790	4,230	2,040	1,590	1,830	2,360	3,090	1,650	1,180	881
Ac-ft	115,000	212,400	249,300	481,000	204,000	121,400	152,500	264,900	278,600	158,600	98,120	72,490

	Calendar Year 2005	Water Year 2006
Total	999,981	1,214,157
Mean	2,740	3,326
Max	22,100	19,400
Min	743	881
Ac-ft	1,983,000	2,408,000

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